Tripp Lite
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SmartOnline 100-127V 2.2kVA 1.8kW On-Line Double-Conversion UPS, Extended Run, SNMP, Webcard, Tower, LCD display, USB, DB9 Serial

MODEL NUMBER: **SU2200XLCD**

Highlights

- 2200VA / 2.2kVA / 1800 watt on-line double-conversion tower UPS
- 100/110/120/127V 50/60Hz output, 97% efficiency economy mode option
- Interactive LCD with 10 selectable screens of UPS and site power data
- Expandable runtime, Hot-swappable batteries
- USB, RS232 & EPO ports, SNMPWEBCARD option
- 2 independently switched load banks
- NEMA 5-20P input; 6 5-15/20R & 1 L5-20R outlets

Package Includes

- SU2200XLCD SmartOnline® Tower UPS System
- PowerAlert Software CD and Cabling
- Emergency Power Off (EPO) Cabling
- Owner's Manual

Description

Do you need to protect medium- to large-size servers, networking equipment and telecom systems against data loss, downtime and equipment damage due to power outages, voltage fluctuations and transient surges? Tripp Lite's SU2200XLCD SmartOnline® Tower UPS System is the solution! Featuring a 2200VA/1800W capacity and true on-line operation with pure sine wave output and zero transfer time to battery, it provides the highest level of power protection for mission-critical equipment. The SU2200XLCD's large internal battery set supports connected equipment during blackouts, and runtime is expandable with optional external battery packs BP48V24-2U (limit 1), BP48V60RT-3U (multi-pack compatible) and BP48V27-2US (multi-pack compatible), sold separately. The SU2200XLCD has 7 AC outlets (6 5-15/20R, 1 L5-20R), including 2 load banks of 3 outlets each that are individually controllable to reboot select equipment on demand or maximize battery runtime for mission-critical equipment. USB and DB9 communication ports support messaging of detailed UPS operational parameters and line power status. Included PowerAlert power management software supports an unlimited number of network UPS systems. The SU2200XLCD also accepts an optional SNMPWEBCARD accessory that enables the UPS to operate as a managed device on the network. It comes backed by a 2-year warranty and $250,000 of Ultimate Lifetime Insurance (U.S., Canada, and Puerto Rico only).

Features

Ideal for Protection of Mission-Critical Equipment

The SU2200XLCD provides true on-line operation, reliable battery backup and comprehensive power management capability in a compact tower form factor. Featuring a 2200VA/1800W capacity, 7 AC outlets (6 5-15/20R, 1 L5-20R), a 10-ft. cord with 5-20P plug, USB/DB9 ports and a slot for an optional SNMPWEBCARD, the SU2200XLCD offers a complete power protection solution for medium- to large-size servers, storage devices, telecom systems and other mission-critical equipment.

True On-Line Operation with Pure Sine Wave Output and Zero Transfer Time

The SU2200XLCD provides the highest level of protection available for mission-critical equipment. It actively converts raw incoming AC power to DC, then re-converts it back to regulated, filtered AC output with a pure sine wave, completely isolating connected components from all power problems. Zero transfer time between AC and battery operation maintains continuous output and further protects connected equipment from the disruptive effects of blackouts and

severe low-voltage conditions. Sine wave output guarantees compatibility with all equipment types.

Individually Controllable Outlets

The SU2200XLCD includes 2 load banks of 3 outlets each that are individually controllable via a software interface for remote reboot of locked-up equipment or load shedding to maximize battery backup time for mission-critical equipment.

Reliable, Expandable Battery Backup

UPS battery backup keeps connected equipment operational through short power failures, and provides time to save data and perform an orderly system shutdown in case of a prolonged blackout. The SU2200XLCD features a large internal battery set that provides 13 minutes of battery support for a half load (900 watts) and 4.5 minutes for a full load (1800 watts). During normal operation, incoming utility power keeps the UPS battery fully charged so that backup power will always be available if needed. For mission-critical applications demanding continuous uptime, the fully scalable SU2200XLCD can provide expandable runtime with optional external battery packs BP48V24-2U (limit 1), BP48V60RT-3U (multi-pack compatible) and BP48V27-2US (multi-pack compatible), sold separately.

High Power Factor and Highly Efficient Operation Reduces BTU Output

The SU2200XLCD features a high 0.82 power factor and an optional, highly efficient economy mode setting that can significantly reduce a facility's energy costs. In economy mode, the UPS operates with 97% efficiency, minimizing heat output, reducing cooling requirements and consuming less electricity.

AC Line and Tel/Ethernet Surge Suppression

A sudden power surge or spike can damage or destroy electronic components and wipe out irreplaceable data. The SU2200XLCD features a 570-joule surge suppression rating to protect connected components and data from the harmful effects of power surges. One set of tel/Ethernet (RJ45) jacks provides surge protection for a standard phone or network connection (cable not included).

EMI/RFI Line Noise Filtering

Various electrical and radio sources can cause disruptive interference on the AC line. This line noise is a common cause of incremental hardware damage, data corruption and audio/video performance problems. The SU2200XLCD incorporates technology that filters out disruptive line noise, preventing it from affecting your equipment.

LCD Screen and Audible Alarm

The SU2200XLCD features a front-panel LCD screen that enables IT personnel to monitor line power, on-line mode, bypass mode, on-battery, overload, battery low, replace battery and fault status information. It is supplemented by an audible alarm that signals UPS startup, power failure, low battery, overload, UPS fault and remote shutdown conditions.

Emergency Power Off (EPO) Capability

The SU2200XLCD features an EPO interface port that supports emergency shutoff in large facilities (cable included).

USB/DB9 Ports, SNMP Capability and Included PowerAlert Software

The SU2200XLCD features an HID-enabled USB port and a DB9 port (cables included). Used with Tripp Lite's included PowerAlert software, these communication ports provide comprehensive network power monitoring and control. Capabilities include UPS and line power status messaging (on battery, low-battery, power restored, AC line voltage, DC battery voltage and remaining battery capacity), timed inverter shutoff after unattended shutdown, and UPS output power control for delayed or immediate reboot of connected devices. The SU2200XLCD also accepts an optional SNMPWEBCARD accessory that enables the UPS to operate as a managed device on the network.

Peace of Mind

The SU2200XLCD comes with $250,000 Ultimate Lifetime Insurance (U.S., Canada, and Puerto Rico only) for connected equipment and a 2-year warranty.

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Specifications

OUTPUT	
Output Capacity Details	ON LINE MODE: Maximum output capacity rating is reduced to 1620W (115V), 1530W (110V) and 1440W (100V); FREQUENCY REGULATION / CONVERSION MODE: Maximum output ratings are reduced in frequency regulation / conversion mode (127/120V 1260 watts, 115V 1134 watts, 110V 1071 watts, 100V 1008 watts) OVERLOAD CAPACITY: Supports inverter operation up to 105% load continuously, 125% load for 3 minutes; 150% load for 30 seconds and >150% load for 0.5 seconds before switching to BYPASS (when bypass input voltage and frequency are WITHIN bypass limits) or SHUTDOWN (when bypass input voltage or frequency are OUTSIDE bypass limits)
Output Volt Amp Capacity (VA)	2200
Output kVA Capacity (kVA)	2.2
Output Watt Capacity (Watts)	1800
Output kW Capacity (kW)	1.8
Power Factor	0.82
Crest Factor	3:1
Nominal Output Voltage(s) Supported	100V; 110V; 120V; 127V
Nominal Voltage Details	120V default
Frequency Compatibility	50 / 60 Hz; Supports 50 to 60 Hz and 60 to 50 Hz conversion
Frequency Compatibility Details	ON LINE MODE: Output frequency is automatically configured to match nominal input frequency on startup; Output matches input frequency when +/-5Hz of nominal; Output is regulated to +/-0.05Hz when input frequency exceeds +/-5Hz of nominal. UPS switches to battery mode when input frequency is below 40Hz or above 70Hz. FREQUENCY REGULATION / CONVERSION MODE: Output is regulated to +/-0.05Hz of selected output frequency when input is 40 to 70Hz; UPS switches to battery mode when input frequency is below 40Hz or above 70Hz. BATTERY MODE: Output is regulated to +/-0.05Hz of selected nominal.
Output Voltage Regulation (Line Mode)	+/- 2%
Output Voltage Regulation (Economy Line Mode)	+/- 10%
Output Voltage Regulation (Battery Mode)	+/- 3%
Output Receptacles	(6) 5-15/20R; (1) L5-20R
UPS Output Receptacles (Surge Suppression Only)	ON LINE MODE: Maximum output capacity rating is reduced to 1620W (115V), 1530W (110V) and 1440W (100V); FREQUENCY REGULATION / CONVERSION MODE: Maximum output ratings are reduced in frequency regulation / conversion mode (127/120V 1260 watts, 115V 1134 watts, 110V 1071 watts, 100V 1008 watts) OVERLOAD CAPACITY: Supports inverter operation up to 105% load continuously, 125% load for 3 minutes; 150% load for 30 seconds and >150% load for 0.5 seconds before switching to BYPASS (when bypass input voltage and frequency are WITHIN bypass limits) or SHUTDOWN (when bypass input voltage or frequency are OUTSIDE bypass limits)
Load Management Receptacles	Two switchable three-outlet load banks
Output AC Waveform (AC Mode)	Pure Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
INPUT	

Rated input current (Maximum Load)	16A
Nominal Input Voltage(s) Supported	100V AC; 110V AC; 120V AC; 127V AC
Nominal Input Voltage Description	120V factory default
UPS Input Connection Type	5-20P
Input Circuit Breakers	30A
UPS Input Cord Length (ft.)	10
UPS Input Cord Length (m)	3
Recommended Electrical Service	20A 120V
Input Phase	Single-Phase
BATTERY	
Full Load Runtime (min.)	4.5 min. (1800w)
Half Load Runtime (min.)	13 min. (900w)
Expandable Battery Runtime	Extended runtime supported via optional external battery packs
External Battery Pack Compatibility	BP48V24-2U (limit 1); BP48V60RT-3U (multi-pack compatible); BP48V27-2US (multi-pack compatible)
Expandable Runtime Description	External battery configurations require the use of Tripp Lite's External Battery Configuration Software, see manual for details
DC System Voltage (VDC)	48
Battery Recharge Rate (Included Batteries)	Less than 3 hours from 10% to 90%
Internal UPS Replacement Battery Cartridge	RBC48-SUTWR
Battery Access	Battery access door
Battery Replacement Description	Hot-swappable, user replaceable batteries
Expandable Runtime	Yes
VOLTAGE REGULATION	
Voltage Regulation Description	Online, double-conversion power conditioning
Overvoltage Correction	2% output voltage regulation during overvoltages to 150
Undervoltage Correction	2% output voltage regulation during undervoltages to 55V (33% load), 70V (70% load), 100V (100% load)
USER INTERFACE, ALERTS & CONTROLS	
Front Panel LCD Display	Front panel LCD information and configuration screen offers detailed UPS and site power status and operating data, plus configuration of voltage, frequency, operating mode, alarm function and a variety of additional options
Switches	2 switches control off/on power status and alarm-cancel/self-test operation
Alarm Cancel Operation	Power-fail alarm can be temporarily silenced using alarm-cancel switch; silent mode alarm configuration option available
Audible Alarm	Audible alarm indicates UPS startup, power-failure, low-battery, overload, UPS fault and remote shutdown conditions

Front Panel LCD	Yes
SURGE / NOISE SUPPRESSION	
UPS AC Suppression Joule Rating	570
UPS AC Suppression Response Time	Instantaneous
UPS Dataline Suppression	1 line TEL/DSL (1 in / 1 out); 10/100Base T Ethernet
EMI / RFI AC Noise Suppression	Yes
PHYSICAL	
Installation Form Factors Supported with Included Accessories	ON LINE MODE: Maximum output capacity rating is reduced to 1620W (115V), 1530W (110V) and 1440W (100V); FREQUENCY REGULATION / CONVERSION MODE: Maximum output ratings are reduced in frequency regulation / conversion mode (127/120V 1260 watts, 115V 1134 watts, 110V 1071 watts, 100V 1008 watts) OVERLOAD CAPACITY: Supports inverter operation up to 105% load continuously, 125% load for 3 minutes; 150% load for 30 seconds and >150% load for 0.5 seconds before switching to BYPASS (when bypass input voltage and frequency are WITHIN bypass limits) or SHUTDOWN (when bypass input voltage or frequency are OUTSIDE bypass limits)
Installation Form Factors Supported with Optional Accessories	ON LINE MODE: Maximum output capacity rating is reduced to 1620W (115V), 1530W (110V) and 1440W (100V); FREQUENCY REGULATION / CONVERSION MODE: Maximum output ratings are reduced in frequency regulation / conversion mode (127/120V 1260 watts, 115V 1134 watts, 110V 1071 watts, 100V 1008 watts) OVERLOAD CAPACITY: Supports inverter operation up to 105% load continuously, 125% load for 3 minutes; 150% load for 30 seconds and >150% load for 0.5 seconds before switching to BYPASS (when bypass input voltage and frequency are WITHIN bypass limits) or SHUTDOWN (when bypass input voltage or frequency are OUTSIDE bypass limits)
Primary Form Factor	Tower
UPS Power Module Dimensions (hwd, in.)	10.2 x 9 x 19.5
UPS Power Module Dimensions (hwd, cm)	25.9 x 22.9 x 49.5
UPS Power Module Weight (lbs.)	52.9
UPS Power Module Weight (kg)	24
Stepdown Transformer Dimensions (hwd / in.)	ON LINE MODE: Maximum output capacity rating is reduced to 1620W (115V), 1530W (110V) and 1440W (100V); FREQUENCY REGULATION / CONVERSION MODE: Maximum output ratings are reduced in frequency regulation / conversion mode (127/120V 1260 watts, 115V 1134 watts, 110V 1071 watts, 100V 1008 watts) OVERLOAD CAPACITY: Supports inverter operation up to 105% load continuously, 125% load for 3 minutes; 150% load for 30 seconds and >150% load for 0.5 seconds before switching to BYPASS (when bypass input voltage and frequency are WITHIN bypass limits) or SHUTDOWN (when bypass input voltage or frequency are OUTSIDE bypass limits)
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Included Battery Pack Dimensions (hwd / in.)	ON LINE MODE: Maximum output capacity rating is reduced to 1620W (115V), 1530W (110V) and 1440W (100V); FREQUENCY REGULATION / CONVERSION MODE: Maximum output ratings are reduced in frequency regulation / conversion mode (127/120V 1260 watts, 115V 1134 watts, 110V 1071 watts, 100V 1008 watts) OVERLOAD CAPACITY: Supports inverter operation up to 105% load continuously, 125% load for 3 minutes; 150% load for 30 seconds and >150% load for 0.5 seconds before switching to BYPASS (when bypass input voltage and frequency are WITHIN bypass limits) or SHUTDOWN (when bypass input voltage or frequency are OUTSIDE bypass limits)

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Included Battery Pack Dimensions (hwd / cm)	ON LINE MODE: Maximum output capacity rating is reduced to 1620W (115V), 1530W (110V) and 1440W (100V); FREQUENCY REGULATION / CONVERSION MODE: Maximum output ratings are reduced in frequency regulation / conversion mode (127/120V 1260 watts, 115V 1134 watts, 110V 1071 watts, 100V 1008 watts) OVERLOAD CAPACITY: Supports inverter operation up to 105% load continuously, 125% load for 3 minutes; 150% load for 30 seconds and >150% load for 0.5 seconds before switching to BYPASS (when bypass input voltage and frequency are WITHIN bypass limits) or SHUTDOWN (when bypass input voltage or frequency are OUTSIDE bypass limits)
UPS Shipping Dimensions (hwd / in.)	15.2 x 13 x 24
UPS Shipping Dimensions (hwd / cm)	38.6 x 33 x 61
Shipping Weight (lbs.)	58.2
Shipping Weight (kg)	26.4
Cooling Method	Fan
UPS Housing Material	Steel
ENVIRONMENTAL	
Operating Temperature Range	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius
Storage Temperature Range	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius
Relative Humidity	0 to 95%, non-condensing
AC Mode BTU / Hr. (Full Load)	684
AC Economy Mode BTU / Hr. (Full Load)	190
Battery Mode BTU / Hr. (Full Load)	1087
AC Mode Efficiency Rating (100% Load)	92%
AC Economy Mode Efficiency Rating (100% Load)	97%
Audible Noise	< 50.5 dB at front side 1m
COMMUNICATIONS	
Communications Interface	USB (HID enabled); DB9 Serial; Contact closure; EPO (emergency power off); Slot for SNMP/Web interface
Network Monitoring Port Description	Supports detailed monitoring of UPS and site power conditions; DB9 port supports RS232 and contact closure communications
PowerAlert Software	Included
Communications Cable	USB and DB9 cabling included
WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
LINE / BATTERY TRANSFER	
Transfer Time	Zero transfer time (0 ms.) in online, double-conversion and frequency regulation / conversion modes;
Low Voltage Transfer to Battery Power (Setpoint)	55V (33% load), 70V (70% load), 100V (100% load)
High Voltage Transfer to Battery Power (Setpoint)	150

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SPECIAL FEATURES	
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Automatic inverter bypass; Hot swappable batteries
Green Energy-Saving Features	High efficiency economy mode operation; Individually controllable load banks; Schedulable daily hours of economy mode operation
CERTIFICATIONS	
UPS Certifications	Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI)
WARRANTY	
Product Warranty Period (Worldwide)	2-year limited warranty
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	$250,000 Ultimate Lifetime Insurance

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